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(21) International Application Number: PCT/FI99/00351  (22) International Filing Date: 28 April 1999 (28.04.99)  (30) Priority Data: 980948 29 April 1998 (29.04.98) FI		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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<p><b>Published</b>  <i>With international search report.            Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.            In English translation (filed in Finnish).</i></p> <p>(88) Date of publication of the international search report: 29 December 1999 (29.12.99)</p>		
<p>(54) Title: METHOD OF CONNECTING NETWORK ELEMENTS TO A RADIO SYSTEM, AND RADIO SYSTEM</p> <p>(57) Abstract</p> <p>The invention relates to a radio system and a method of connecting network elements to the radio system comprising one or more network elements (316, 324, 326, 328, 334, 336), a base station controller (302) and a network management system (300) that are operatively interconnected by means of telecommunication connections. Information between the network elements is transmitted in frames that are divided into time slots. The base station controller (302) controls one or more network elements. Network identification information is fed into a network element to be installed and the network element is physically connected to the system by means of the telecommunication connections. To ensure reliable and quick network element installation in the frames that are used for communication with the network elements by the base station controller, unused consecutive time slots of the frames are divided into one or more groups (406, 412). Each group has one time slot (408, 414) used as a communication control channel as regards time slot allocation from said group. The base station controller allocates necessary telecommunication capacity for the use of the communication between the network element and the base station controller, and the allocated telecommunication capacity is branched by software through the telecommunication connections to the network elements.</p>		

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 99/00351

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC6: H04Q 7/34, H04Q 7/36**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC6: H04Q, H04L**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9501015 A1 (NOKIA TELECOMMUNICATIONS OY), 5 January 1995 (05.01.95), page 3, line 29 - page 4, line 11; page 5, line 7 - line 12  --	1,9-10
A	WO 9614720 A1 (NOKIA TELECOMMUNICATIONS' OY), 17 May 1996 (17.05.96), page 2, line 31 - page 3, line 28  --	1-14
E	WO 9935800 A2 (NOKIA TELECOMMUNICATIONS OY), 5 July 1999 (05.07.99), page 2, line 17 - line 27; page 3, line 10 - line 23  --	1-14

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International application No.  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 9922541 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 6 May 1999 (06.05.99), page 4, line 20 - page 5, line 6; page 15, line 3 - line 16 -----	1-14

# INTERNATIONAL SEARCH REPORT

Information on patent family members

28/09/99

International application No.

PCT/FI 99/00351

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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WO 9922541 A1	06/05/99	AU 9657798 A	17/05/99

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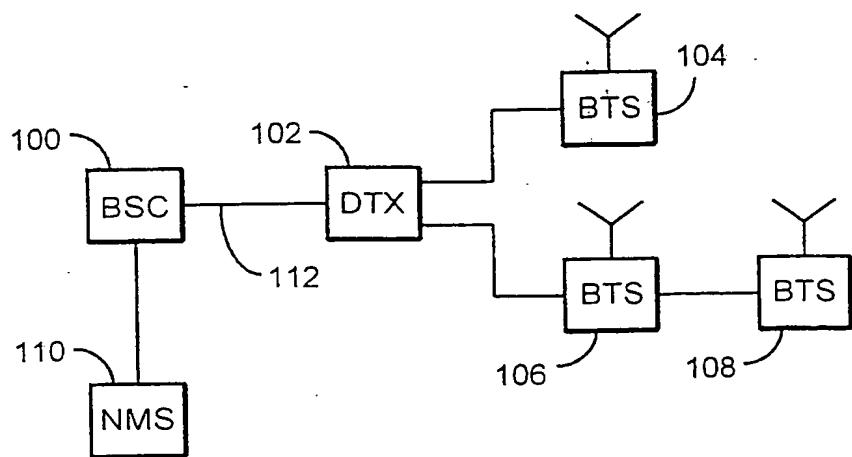


Fig. 1

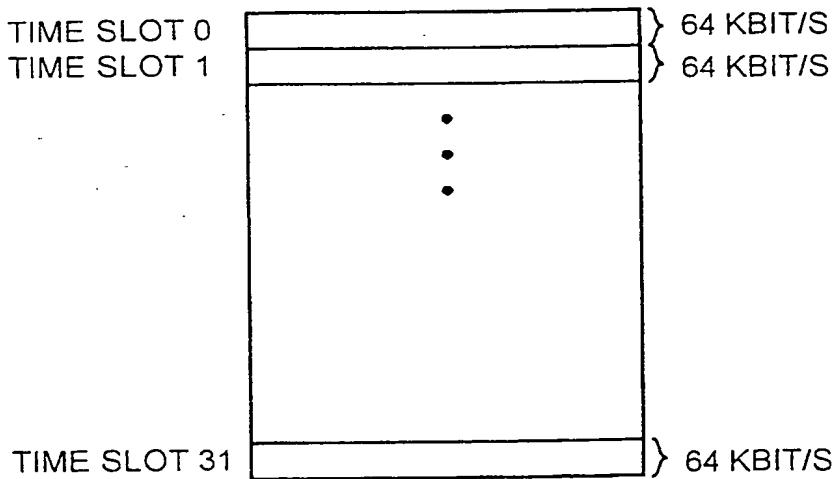


Fig. 2

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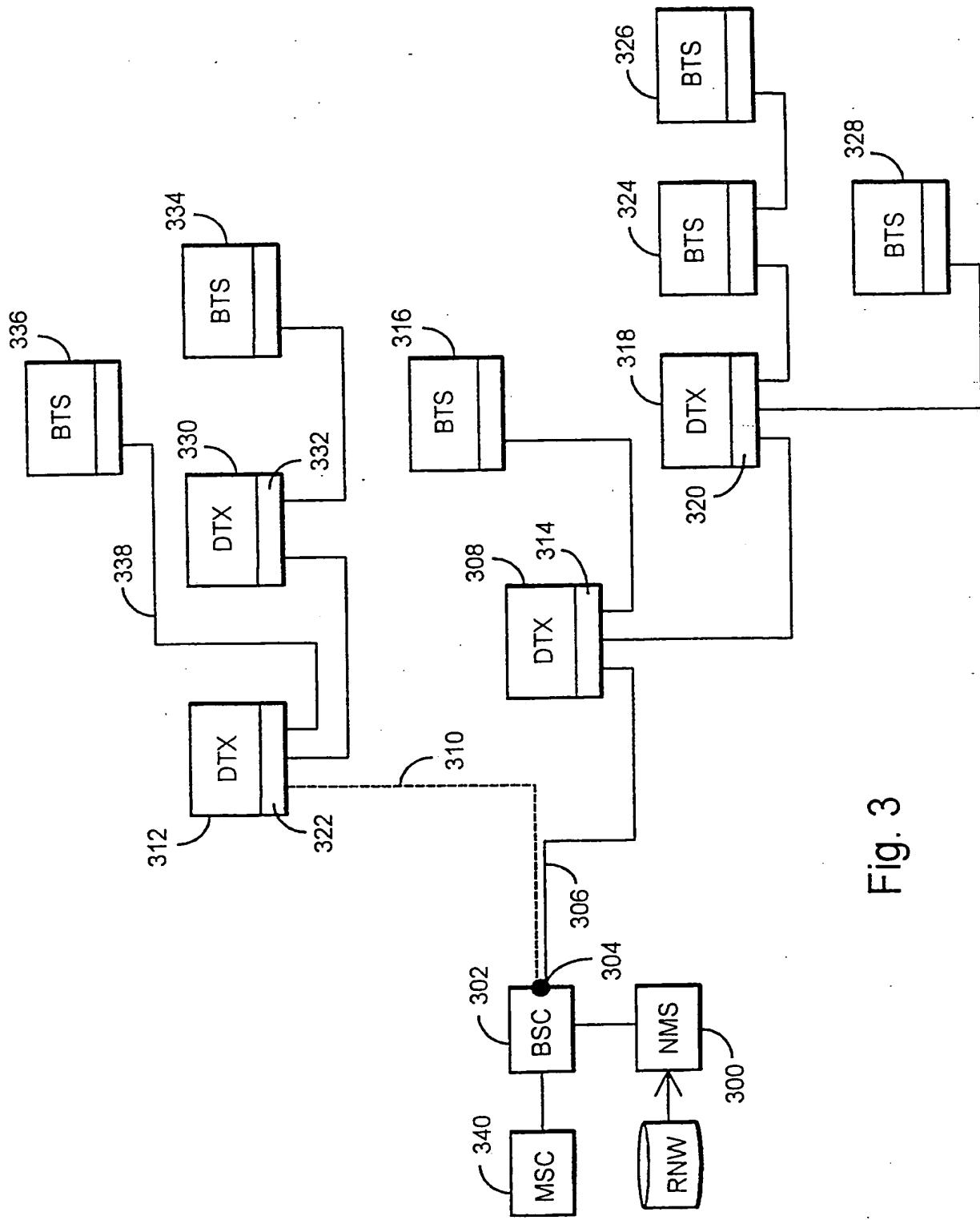


Fig. 3

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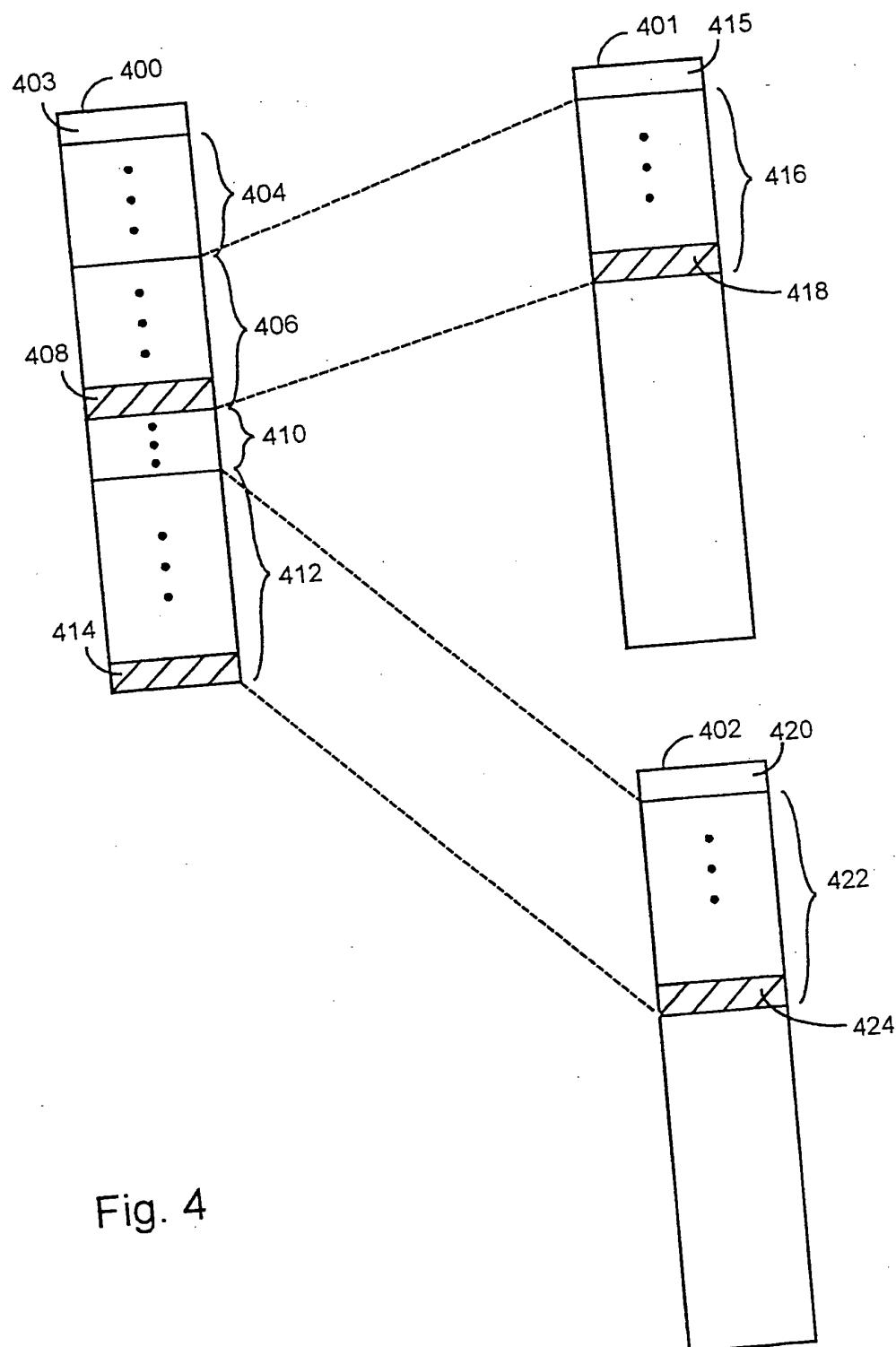


Fig. 4

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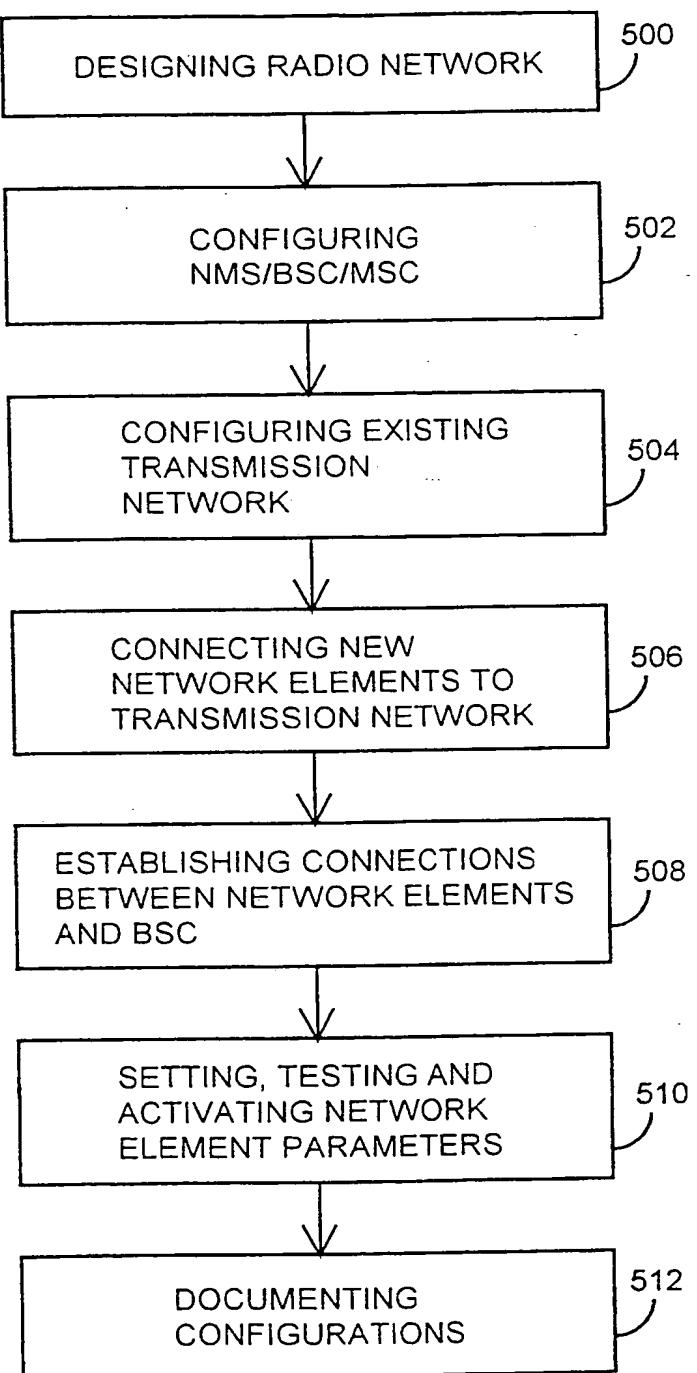


Fig. 5

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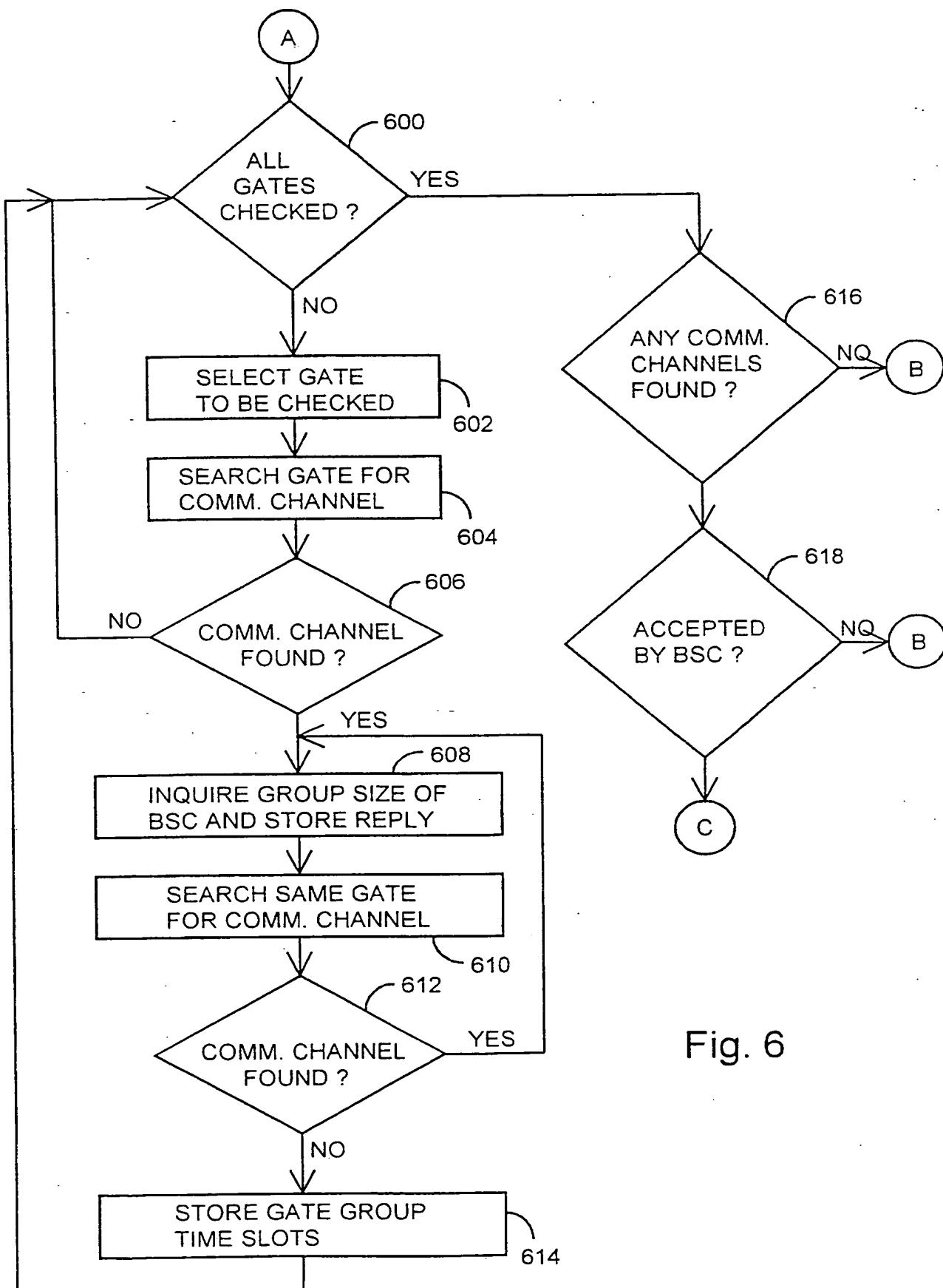


Fig. 6

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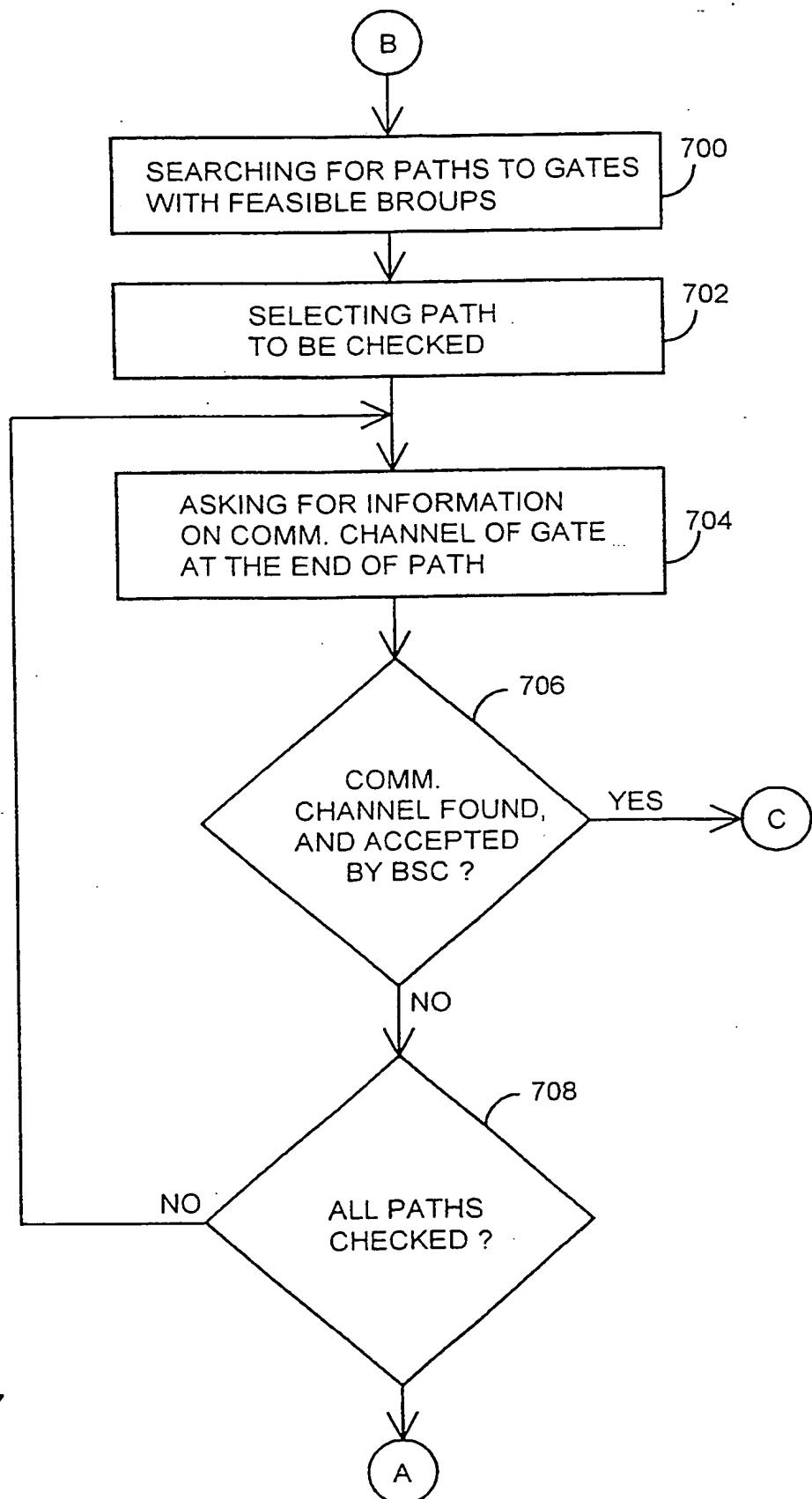


Fig. 7

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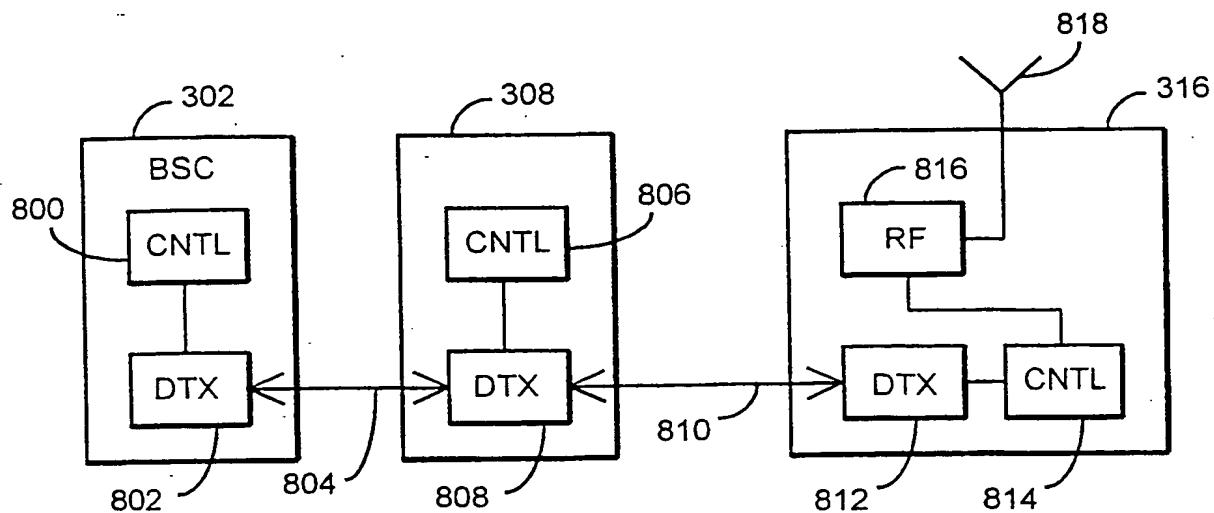


Fig. 8

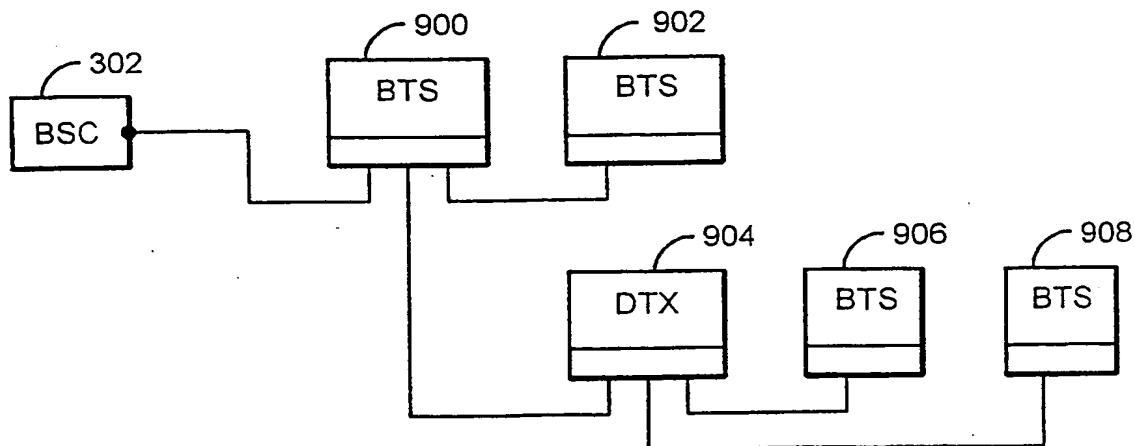


Fig. 9a

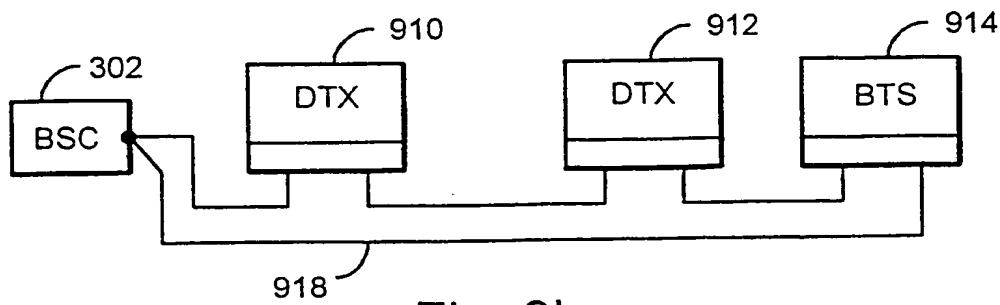


Fig. 9b